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Mikhaylichaukeche

AUTHOR:

Mikhaylichenko, N. G.

TITLE:

Method of Determining the Mechanical Characteristics of the Metal of a Specimen under Torsion (Sposob opredeleniya mekhanicheskikh kharakteristik metalla obraztsa pri kruchenii)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, No. 1, pp. 83-87 (U.S.3.R.)

ABSTRACT:

The article shows the possibility of determining the basic machanical characteristics of the metal of a specimen directly by automatically recording the curve of torsion. The original description of the method is to be found in a previous article as indicated in Reference 4. This article limits itself to data on different kinds of steel analysis by graphs, drawings and tables, namely: curves of torsion of a solid cylinder specimen, form of specimen, peaks on curve  $M = \phi(\Phi)$ , graph for determining the magnitude of  $T_{pk}$ ,  $T_{p}$ , and  $T_{pk}$  on a self-recorded torsion curve, comparison of high and low peaks, effect of form of cross section, deviation of the magnitudes of  $T_{p}$ ,  $T_{s}$ ,  $T_{tk}$ . The conclusion is drawn that the low peak on the curve  $M = \phi(\Phi)$  depends very little on the form of the specimen and therefore has greater practical significance for the characteristic of the properties of the material. With self-recording of resistance of metal

Card 1/2

Method of Determining the Mechanical Characteristics of the Metal of a Specimen under Torsion

to deformation under torsion, it is possible to determine the limits of proportionality, fluidity and strength as well as the relative and true displacement. There are 6 Slavic references.

ASSOCIATION:

Rostov-on-the-Don Institute of Railroad Transportation Engineers (Rostovskiy-na-Dony institut inzhenerov zheleznodorozhnogo

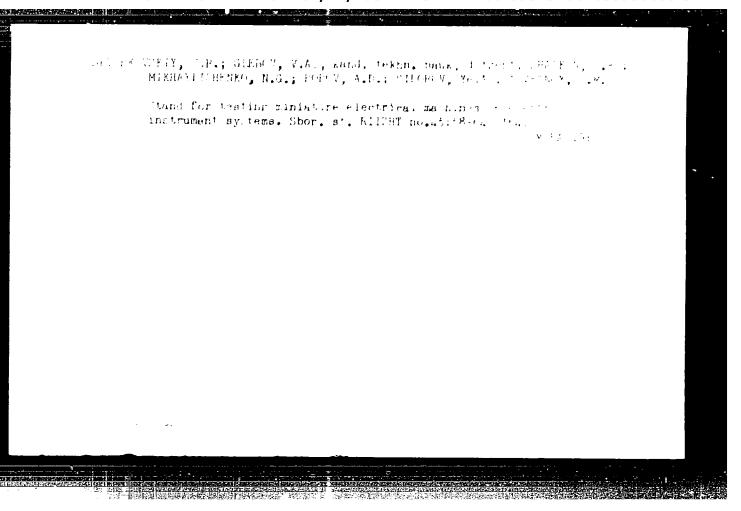
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PRESENTED BY:

SUBMITTED:

AVAILABLE:

Card 2/2



POCHIHOK, V.Ya.; BELINSKAYA, R.V.; SHEVCHENKO, O.I., MIKHAYLICHENKO, N.K.

Thermal decomposition of fatty aromatic triagenes. Ukr. khim. zhur. 24 no. 2:228-231 158. (MIRA 11:6)

1. Kiyevskiy gosudarstvennyy universitet im. T.G. Shevchenko, Kafedra organicheskoy khimii.

(Triazene)

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MIKHAYLICHENKO, P. M.; GOL'DENBERG, I. Ia.; LUKASHOV, I. I.; KARUT, T. A.; IVANOVA, M.I.; KANDYBA, S. G.

"Pathogenic properties of the culture of tuberculous bacillus isolated from a field mouse."

SO: Veterinariia 29 (11), 1952, p. 20

MIKHAYLICHENKO, P.M., vetvrach.

Effect of prolonged use of horses for the production of therapeutic and prophylactic serums on the toms of their cardiovascular system. Sbor. trud. Ehar'. vet. inst. 22:208-217 '54. (MLRA 9:12)

生活,他们们就是他们的,但是这里在这些特别的的的,就是这些的的的,这么是这个的,就是这些的的的的。但是这些的的,我也是这种的的,我也是<mark>是是这一个,这么是是是是</mark>这

1. Kafedra patologicheskoy fisiologii Khar'kovskogo veterinarnogo instituta.

(Horses--Physiology) (Serum) (Cardiovascular system--Diseases)

LUKASHOV, I.I., professor.; GOL DENBERG, I.Ya., professor, [deceased].; IVAHOVA,
M.I., dotsent.; KARUT, T.A., dotsent.; MIKHAYLICHENKO, P.M., vrach.;
KANDYBA, S.G., vrach.

eliteleste de la company de la

Studying sheep and swine for the pathogenic properties of a culture grown from tuberculosis bacilli isolated from field voles. Shor. trud. Khar'. vet. inst. 22:248-251 '54. (MLRA 9:12)

l. Kafedra epizootologii Khar'kovskogo veterinarnogo instituta i tuberkuleznyy otdel Khar'kovskogo instituta epidemiologii i mikrobiologii imeni I. I. Mechnikova. (Tuberculosis in animals)

# MIKHAYLICHENEO, P.V. Trucks used for repairing contact networks. Elek. i tepl.tiaga 3 no.2:44 F '59. (MIRA 12:4) 1. Zamestitel' nachal'nika l-go uchastka energosnabsheniya Ufinskoy dorogi. (Motortrucks) (Electric railroads—Wires and wiring—Maintenace and repair)

RAZIN, P.S., dotsent; FILIMONOVA, A.Ya.; VOTINOVA, Ye.P.; MIKHAYLICHENKO, S.I. (Vladivostok)

Some problems in the pathogenesis of pneumonia in the Maritime Territory. Klin.med. no.4:43-45 '62. (MIRA 15:5)

Iz Vladivostokskogo meditsinskogo instituta (dir. - dotsent
 V.M. Zhivoderov).
 (MARITIME TERRITORY—PNEUMONIA)

I A HANDA THE BEAT OF THE POST OF THE PROPERTY OF THE POST OF THE

# HIKHAYLICHENKO, V.

On a visit to Moscow Basin miners. Mast. ugl. 7 no. 6:23 Je '58. (MIRA 11:7)

1. Predsedatel Donakogo raykoma profsoyuza rabochikh ugolinoy promyshlennosti.

(Moscow Basin--Goal mines and mining)

WIKHAYLICHENKO, V.A., Cand ded Sci -- (diss) "Commarative evaluation of certain methods of treating the stumm of the large and small intestines in resections. (Experimental Study)." Stalino, 1957, 11 pt (Stalino State Med Inst im A.M. Gor'kiy) 120 codies (KL, 20-58, 110)

- 93 -

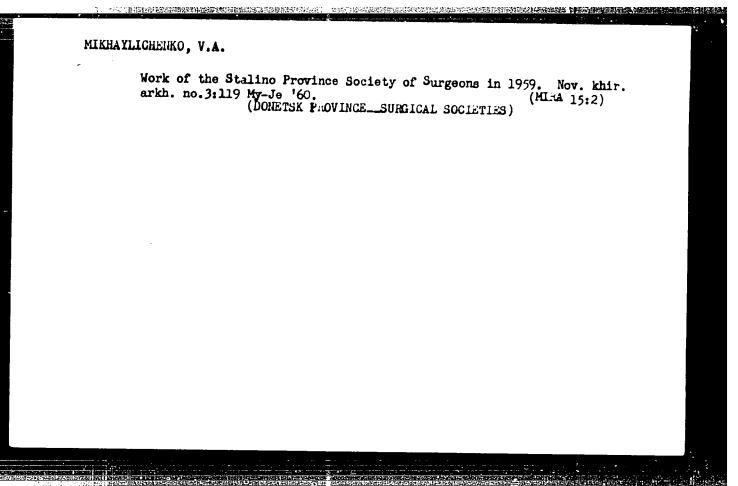
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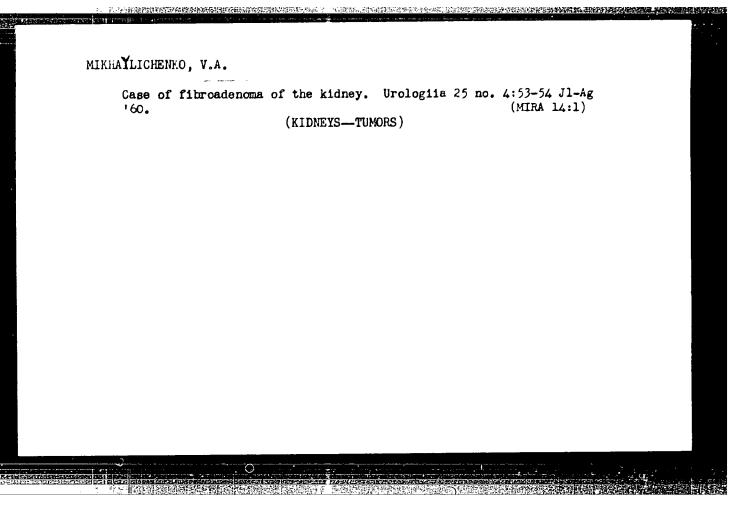
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MIRHATLICHMENO, V.A. (Stalino, Donbase)

Tumor of the adrenal cortex, Probl. endokr. i gorm. 4 no.5:118-120
S-0 '58. (MIRA 11:12)

1. Is Kliniki obehchey khirurgii (Zav. - prof. A.I. Charugin) Stalinskogo meditsinskogo instituta (dir. A.M. Ganichkin).

(ADRINAL CORTEX, neoplasms
adenoma, case report (Rus))
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MIKHAYLICHENKO, V.A., kand.med.nauk

A STATE OF THE PROPERTY OF THE

Structure of the pancreatic ducts. Klin.khir. no.8:52-55 J1 162. (MIRA 15:11)

l. Kafedra obshchey khirurgii (zav. - prof. A.I.Charugin) lechebnogo fakul'teta Donetskogo meditsinskogo instituta. (PANCREAS)

MIKHAYLICHENKO, V.A.; BELETSKIY, V.I.

NEETH-CHIEF CONTROL OF THE PROPERTY OF THE PRO

Lymphogranulomatosis of the duodenum; a case report. Vop. onk. 16 no.9:106-109 64. (MIRA 18:4)

1. Iz kafedry obshchey khirurgii lechebnogo fakul teta (zav. - prof. A.M.Ganichkin) i kafedry rentgenologii (zav. - dotsent I.A.Kunin) Donetskogo meditsinskogo instituta.

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MIKHAYLICHENKO, V.A. (Donetsk, 66, ul. Artema, d.127, kv.53)

Cancer of the greater duodenal papilla. Vop. onk. 10 no.5: 94-99 164. (MIRA 18:8)

1. Iz kafedry obshchey khirurgii lechebnogo fakuliteta (zav. - prof. A.M.Ganichkin) Donetskogo meditsinskogo instituta.

MIKHAYLICHENKO, V.N.

Solonetz complexes in the Ubagan-Ishim interfluve. Trudy Inst.
pochv. AN Kazakh. SSR 15:126-161 '6'. (MIRA 16:12)

MIKHAYLICHENKO, V. N., Cand Agr Sci -- "Improving the solonet" and of viroin rands to the example set by solonets complexes of Ucagano-Ishim watersned." Alma-Ata, 1961.

(Acad Sci UzSSR. Inst of Agr) (KL, 3-61, 254)

- 376 -

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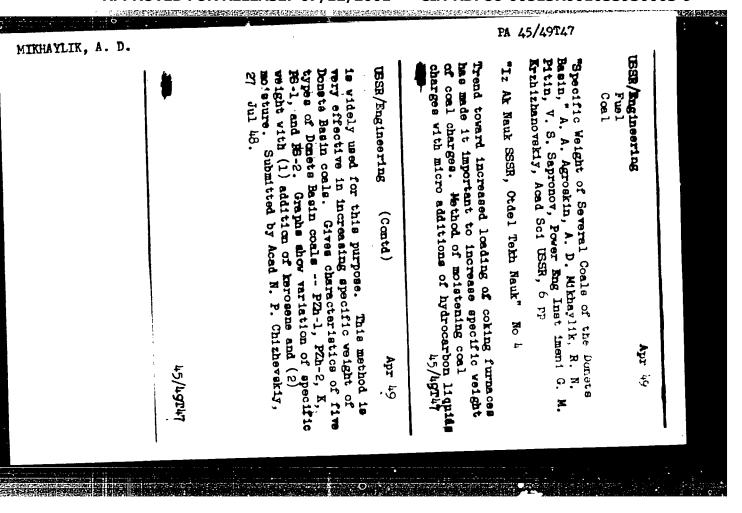
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MIKHAYLIDI, L.L.; CORYACHEVA, I.M.

Drying sulfate in a "fluidized" bed. Bum. prom. 36 no.11:17-18

N '61.

1. Sverdlovskiy sovnarkhoz.

(Sulfates--Drying)
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### CIA-RDP86-00513R001033930003-9 "APPROVED FOR RELEASE: 07/12/2001

14-57-7-15353

Referativnyy zhurnal, Geografiya, 1957, hr 7, p 180 (USSR) Translation from:

Mikhaylik, A. F. AUTHOR:

History of Growth and Ilanning of Khar'kov (Do

istoriyi zabudovy ta Flanirovky m. Kharkova -- in TITLE:

Ukrainian)

Nauk. pratsi, Kharkivstk. in-t inzh. komun. budivnyt-stva, 1.56, Ur 7, pp 121-133 PERIODICAL:

Bibliographic entry ABSTRACT:

Card 1/1

CIA-RDP86-00513R001033930003-9" APPROVED FOR RELEASE: 07/12/2001

MIXHAYLIK Alekser Fedosekayich dotsent; MIXHAYEVICH, N.A., red.;
SHRYCHENKO, M.G., tekhn.red.

[Kharkov is 300 years old; a brief account of its history and economy]. Khar'kovu 300 let; kratkii istoriko-ekonomicheskii ocherk.

Khar'kovskoe obl. isd-vo, 1958. 157 p. (MIRA 12:2)

(Kharkov--Description)

ASTRAKHOV, V.I., dotsent, kandidat istoricheskikh nauk: MIKHAYLIK, A.F., dotsent; SHCHERBININ, I.F., redaktor; ZAMAKHOVSKIT, L.S., terhird cheskiy redaktor

[Kharkov; a reference book] Khar'kov; apravochnaia kniga. [Khar'kov]

[Kharkov-Directories]

(Kharkov-Directories)

KONDRAT'YEV, Nikolay Fedorovich; MIKHAYLIK, Aleksey Fedoseyevich;
DONSKOY, Ya.Te., red.; LIMANOVA, M.I., tekhn. red.

[Kharkov in the seven-year plan] Khar'kov v semiletke. Khar'kov,
Khar'kovskoe knizhnoe izd-vo, 1961. 112 p. (MIRA 15:1)

(Kharkov—Economic policy)

MIKHAYLIK, A. G. (Novokuznetsk)

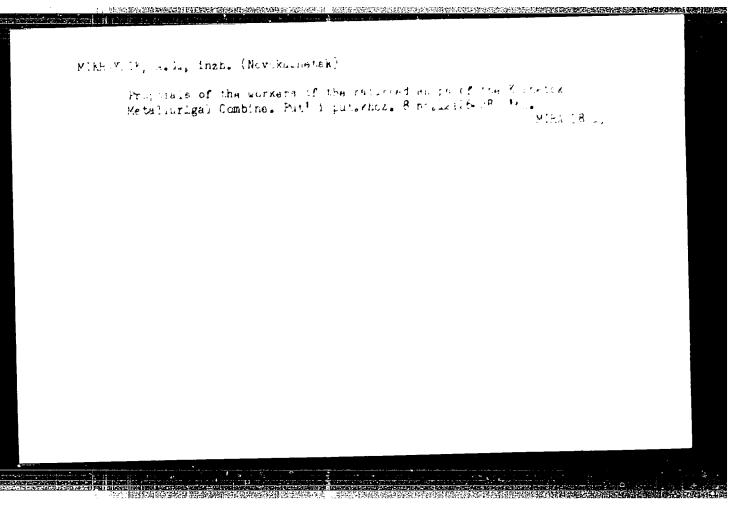
Use of a generator on the track relocation machine. Put'i put. khoz. 6 no.10:10-11 '62. (MIRA 15:10)

(Railroads—Equipment and supplies)

MIKHAYLIK, A.G.

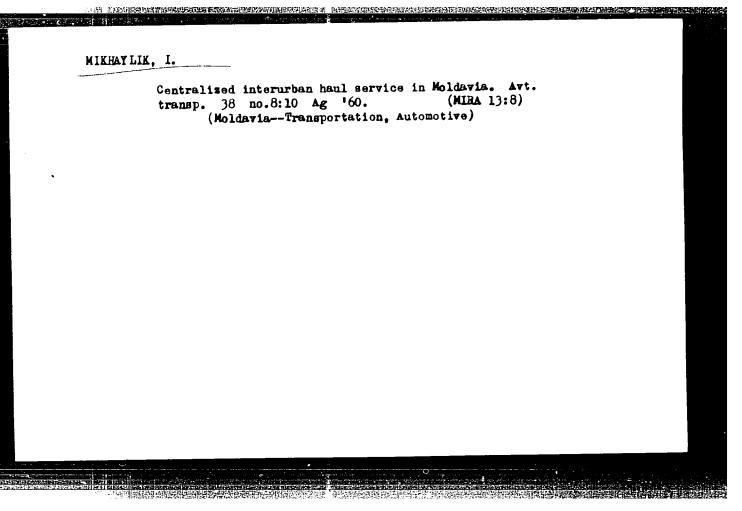
Snow removing machine with brushes. Put' 1 put.khoz. 7 nc.3:37 (MIRA 10:10)

1. Nachal'nik uchastka meshanizatit. sheleznodorozhnogo tsekna Kuznetskogo metallurgicheskogo kombinata, Kuznetsk.



MIKHAYLIK G M.	
USSR (600)	
Sugar Industry	
Role of the senior standardizing engineer in production. Sakh. prom. 26 no. 8, 1952.	
	-
9. Monthly List of Russian Accessions, Library of Congress, November 1957, Uncl.	
2	
	772164587

# MIKHAYLIK, G.M. Antomatic control of production. Sakh.prom. 27 no.7:34-37 Jl '53. (MLRA 6:6) 1. Poltavskiy sakhsveklotrest. (Antomatic control) (Sugar machinery)



1. MTKHAYLIK, P., E	ENG	. P.,	IK.	AYL	MTKH	1.
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- 2. USSR (600)
- 4. Barrels
- 7. Efficient barrel productions. Mol.prom. 12 no. 12, 1952

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

25(2) (CV 117-57-1-11 Pa

AUTHOR Mikhaylık i.i Engineer

Fig. Angles and the second sec

TITLE: A Semi-Automat for Deburring the Butt races of

Threadin, Dies.

FEMICOIDAL: Mashinostroite, 1959, Nr 4 p 26 (ULDA)

ABSTRACT: The subject semi-automat was leveloped by Milef De-

signer I.T. Gontarevskiy of the Technical Legartment of the L vovskiy restrumental myy zaved (L vov For. Ilant) from an obsolete small horizontal milling machine. It has two work discs rotating in the opposite sense with different velocity and bearing cutting segments of high-speed steel "R-18" one feed disc, and an inclined chute for feeding the dies to

the cutting segments. One of the work segments is rigidly attached to a mandrel for the dies and the other is mounted on thrust roller bearings. The semi-

automat released two lathes and four workers employed

Card 1/2

25(2) 557/117-59-4-11/36

A Semi-Automat for Deburring the Butt Faces of Threading Dies.

for the job. eliminated the use of emery cloth and undercutting tools, removed the injury hazard, improved the quality of the dies, raised the work output, and cut the production costs. The designer is now developing a bunker to the machine to make it fully automatic. There is I diagram.

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033930003-9"

25(7)

307/ 17-1 - - 5/33

TO SOUTH THE SECOND SEC

AUTHOR:

Mikhaylik, F.I., Engineer

TITLE:

An Attachment for Reshargening Panches of Complex

Dies Without Dismantling

PERIODICAL:

Mashinostroitel', 1959, Nr 6, p 33 (MSSR)

ABSTRACT:

The attachment is designed for use in the table of a surface grinder and jermits the restarpaning of worn-off punch parts without dismantling the punch of complex press dies. The Introduction of the attachment has permitted the resharpening of punches directly in the stamping press shop. There is I drawing.

Card 1/1

25(

SOV/117-59-8-36/44

AUTHOR:

Mikhaylik, P.I., Engineer

TITLE:

A Bench for Making Shell Molds

PERIODICAL: Mashinostroitel', 1959, Nr 8, pp 42-43 (USSR)

ABSTRACT:

This bench, designed by the tool shop superintendent of the L'vovskiy armaturnyy zavod (L'vov Fittings Plant) accomodates two molding boards with electric spirals heating them to 200 to 250°C. The boards are mounted on trunnions, and can be turned. Hoppers with the bakelite mix are placed on hand-controlled lifting devices under the boards. The hot board, wetted-down with the separating liquid, is turned by a lifting device. The hopper is moved to it, attached by spring latches, and then the board is moved into the initial position and held hot for 15 to 20 seconds to let the shell form on the pattern. After this, the board is turned again, the hopper with the remaining mix is detached,

Card 1/2

SOV/117-59-8-36/44

A Bench for Making Shell Molds

and the board with the shell on the patterns is brought into the upper position, covered with an electric hood heating the shell to 350 to 400°, and left to bake for 1 to 1.5 minutes. A signal lamp on the control board shows when the baking period ends. The electric hood is then placed over the pattern on the other board, while the ready shell is removed from the first.

Card 2/2

PALIY, Georgiy Yakovlevich, polkovnik v otstavke; SOKOLOV, V.D., podpolkovnik, red.; MIKHAYLIK, V.F., kapitan, red.

[The Sixth Heroic Battery, Shestaia geroicheskaia. Moskva, Voenizdat, 1964. 89 p. (MIRA 18:3)

ACCESSION NR: AR3000176

8/0274/63/000/004/A067/A068

SOURCE: RZh: Radiotekimika i elektrosvyaz Absi 44427

AUTHOR: Kukush, V. D.; Mikhaylik, V. T.; Orlow, V. G.

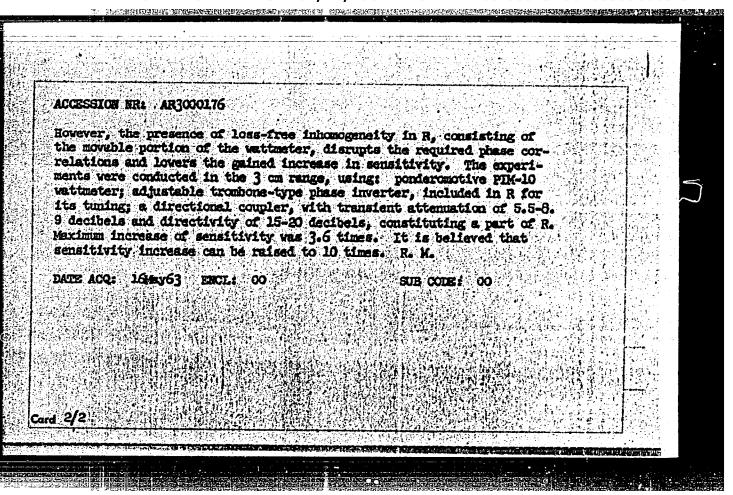
TIPLE: Increasing the sensitivity of a ponderomotive wattmeter by means of a waveguide circuit of a traveling-wave resonator

CITED SOURCE: Uch. zap. Khar'kovsk. un.-t. Tr. Radiofiz. fak., v. 121,

TOPIC TAGS: ponderomotive PIM-10 Wattmeter; traveling-wave resonator; sensitivity increase

TRANSLATION: The wattmeter is included in the loop of traveling-wave resonator (R) connected with the principal channel over which the metered supershighfrequency power is transmitted. Maximum increase of sensitivity depends only on losses in R, and can be made sufficiently great.

Card 1/2



30V/137-59-5-9908

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, p 65 (USSR)

AUTHOR:

Mikhaylikov, S.V.

TITLE:

Chromium and Phosphorus Oxidation in the Reduction of Natural-

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Alloyed Chrome Cast Irons

PERIODICAL:

Tr. In-ta metallurgii Ural'skiy fil. AS USSR, 1958, Nr 2,

pp 73 - 79

ABSTRACT:

The author determined the conditions of metal dephosphorization by blowing with simultaneous preservation of Cr. If high-basicity synthetic slags were used (the composition of the slag-forming mixture contained from 55 to 100% lime or limestone with addition of scale or fluorspar) it was possible to reduce [P] down to 0.06 - 0.08% during the blowing-through process in a 7 kg induction furnace and to preserve up to 75% of the initial Cr content. Amounts up to 0.4 - 1% Cr were preserved during the

blow tests of cast iron, carried out in a 30-t converter with

addition of fluorspar; P was reduced to 0.05%.

Card 1/1

B.L.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033930003-9"

AUTHORS:

Sorokin, F.Ya., Mikhaylikov, S.V.

CHARLES AND MANAGEMENT OF THE PROPERTY OF THE

32-3-21/52

TITLE:

Continuous Measuring of Metal Temperatures in Laboratory Induction Furnaces (Negreryunyy zamer temperatur metalla v labora-

tornykh induktsionnykh pechakh)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 3, Fp. 311-312 (USR)

ABSTRACT:

An induction furnace with a holding capacity of 7 kg metal melt and with a thermocouple element (consisting of a tungsten-molybdenum-couple) is described. The thermocouple element is provided with a protective top made of a material based upon zirconium oxide, which protrudes through the bottom of the furnace, which is made of magnesite, into the melt. A schematical irawing of the furnace as well as several graphs showing temperature modifications during continuous measurement are given. Temperature measurements carried out at 1600° C with a platinum-platinum-rhodium couple agreed with measurements carried out simultaneously with the tungsten-molybdenum couple. The zirconium-oxide top did not change in the course of measurements, so that a mechanical destruction need not be feared except as a result of carelessness. There are 4

Card 1/2

Continuous Measuring of Metal Temperatures in Laboratory Induction Furnaces 32-3-21/52

figures.

ACCCLATION: Institute for Metallurgy of the Ural Branch AS USSR (Institut

metallurgii Ural'skogo filiala akademii nauk CCSh)

AVAILABLE: Library of Congress

1. Induction heating 2. Metals-Temperature factors

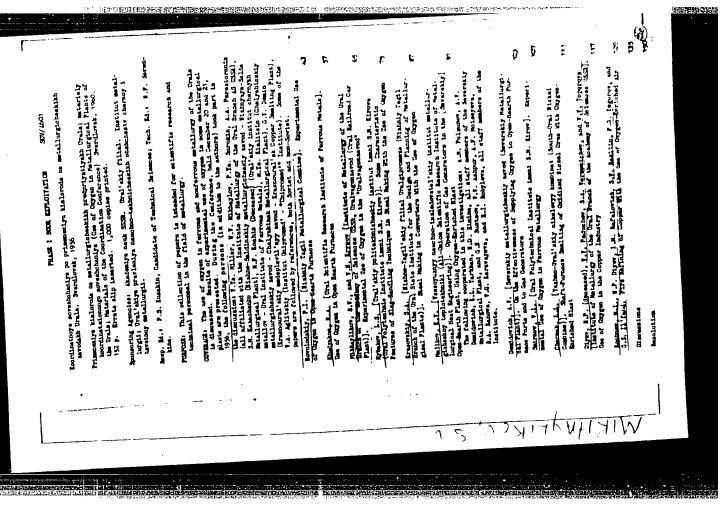
3. Thermocouples-Applications

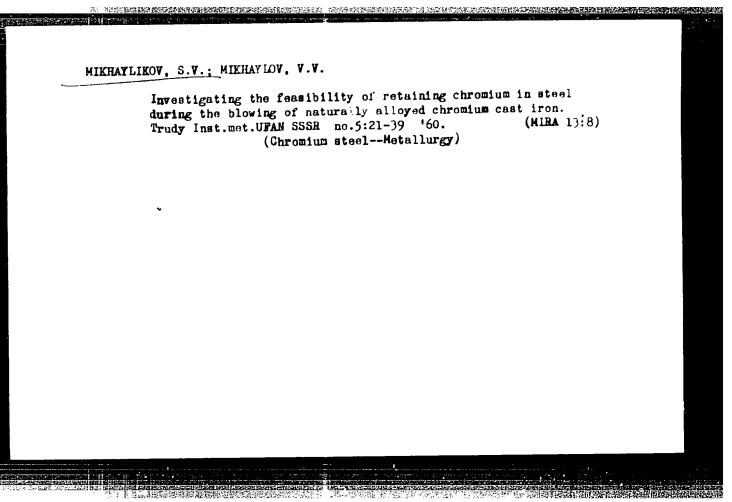
Card 2/2

CIA-RDP86-00513R001033930003-9" **APPROVED FOR RELEASE: 07/12/2001** 

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001033930003-9





PREVENTSOV, V.P.; MIKHAYLIKOV, S.V.; KAMYSHEV, V.M.

Oxygen blowing of low-phosphorus cast iron in a one-ton rotary furnace. lzv.vys.ucheb.zav.; chern.met. no.7:42-48 60.
(MIRA 13:8)

1. Institut metallurgii Ural'skogo filiala AN SSSR.
(Rotary-hearth furnaces) (Oxygen--Industrial application)

S/148/60/000/009/004/025 A161/A030

AUTHORS: Mikhaylikov, S.V., and Revebtsov, V.P.

TITLE: The behaviour of vanadium in blasting with different intensity

of oxidation and metal temperature

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya,

no. 9, 1960, 29-34

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TEXT:

The best method of producing steel from vanadium which contains pig iron, from the economical point of view, is blasting in converters and obtaining a semi-product for open-hearth furnaces and slag for production of ferrovanadium. Many aspects of the behaviour of vanadium in converter process have been considered, but additional investigations are important in view of the vanadium content in the ore of Kachkanar deposit that will soon be used, and the new processes must be considered (converter process with oxygen blast from top, Kaldo process, rotary process). The basic part of investigation has been carried out in the laboratory, in a 30 kw induction furnace, with 4 kg charge of synthetic preliminarily melted vanadium cast iron, in temperatures up to 1780°C. Most of the heats had initial iron

Card 1/6

S/148/60/000/009/004/025 A161/A030

The behaviour of vanadium ...

temperatures of 1400 to 1500°C. It had been revealed in many studies and confirmed in practice that oxidation of vanadium is intensive in the first minutes of blasting at a low initial temperature of iron and low process temperature, but with a higher initial temperature (1450-1500°) the reaction is inhibited. The cause is not the metal temperature but the intensity of blasting (Fig. 1), and oxygen has a stronger effect than air. Besides this, pure oxygen has a stronger effect than an equivalent oxygen volume in blast with air. The effect of blast intensity in an acid furnace is drastic (Fig.4); in experiments with air blast with 50-56 liter/min air the residual vanadium content was drastically decreased, and the volume of oxygen proved sufficient for oxidation of the silicon as well. The vanadium distribution curve at an air blast of 50 liter/min shows that the major factor preventing the oxydation of vanadium in the acid furnace is the higher silicon content in metal that increases during the heat with a low feed of oxygen. As soon as oxidization became intensive and silicon could burn, vanadium started oxidizing with a rate not lower than that in the basic furnace. The results of experiments match the results of industry heats in converters with a bottom and side blast. Experiments with a 20 kg arc furnace also

Card 2/6

S/148/60/000/009/004/025

The behaviour of vanadium ...

confirmed the observations. It may be stated that vanadium can be extracted into slag rapidly and completely through intensive interaction of metal with slag and strongly oxidizing gas This assumption proved right in experiments with a 1 ton rotary furnace (Detailed information on these experiments with a rotary furnace will be published later). Silicon, manganese, vanadium and chrome burned cut down to hundredths of one per cent still having a high carbon content; vanadium oxidized fairly fully despite temperature higher than optimum for devanadation in the second heat half; the decarbonization reaction was also intense. Experiments in industry furnaces are yet necessary. Conversion of vanadium pig iron in rotary furnaces directly into steel, or into a low-carbon semi-product with slag suitable for chemical conversion could be tried. The following basic conclusions can be made: 1) The intensity of blast is the determining factor in the behaviour of vanadium; 2) The devanadation process at high temperatures is possible when the air blast is replaced by oxygen; 3) Devanadation progresses well in rotary furnaces with oxygen blast. There are 4 figures and 6 Soviet-bloc references.

Card 3/6

**这些人们是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们** 

S/148/60/000/003/004/025 A161/A030

The behaviour of vanadium ...

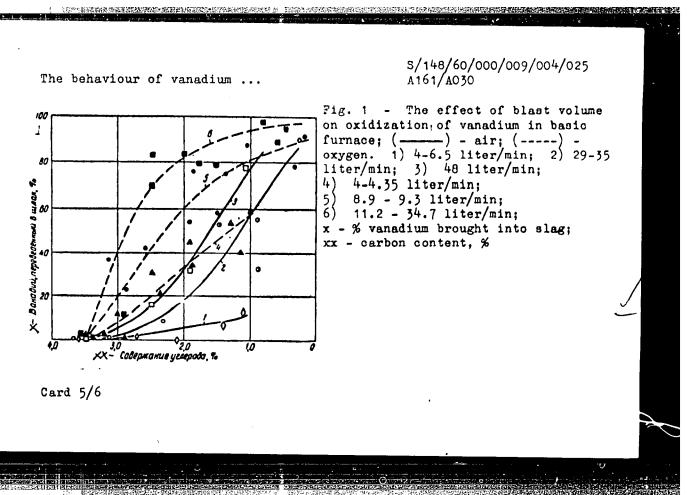
ASSOCIATION: Institut metallurgii Ural'skogo filiala AN SSSR (Institute

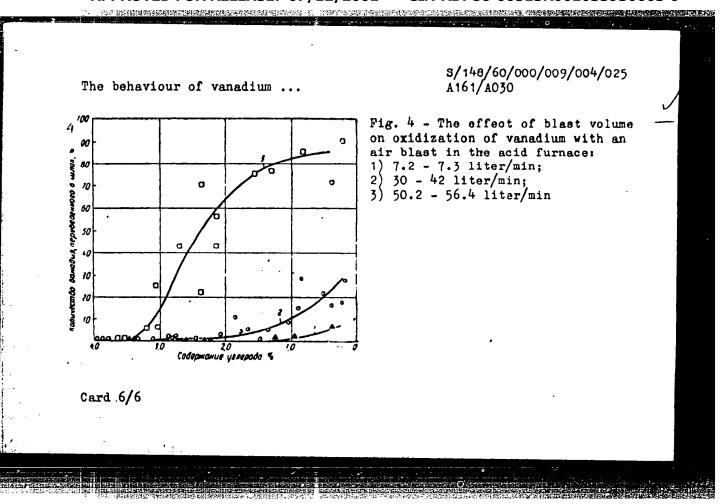
of Metallurgy of the Ural Branch of the Academy of Sciences

of the USSR)

SUBMITTED: 19 March 1960

Card 4/6





L 15583-63 EMP(q)/EMT(m)/BDS AFFTC/ASD ACCESSION NR: AP3000904 8/0279/63/000/002/0033/0039 AUTHORS: Yershov, O. S.; Mikhaylikov, S. V. (Sverdlovsk) TITLE: Investigation of the possibility of steel refining by means of synthetic slaga 6 SOURCE: AN SSSR. Izv. otd. tekh. nauk. Metallurgiya 1 gornoye delo, no. 2, 1963, 33-39 TOPIC TAOS: steel, refining, slag, synthetic slag, blast furnace slag, nepheline, ABSTRACT: The investigation deals with the refining of steel by means of synthetic slags with a high silica content, of blast furnace slag, and of nepheline-based synthetic slags. The steel was prapared from a batch of Armco-iron heated to 16500, with the aftercharge added before the discharge. The slags were prepared in a resistance furnace either from pure components or from metallurgical slags supplemented with lime and alumina. From 6 to 7% of the resulting slag, heated to 1700C, was added to the steel in the ladle at 1000C. It was found that a silica content up to 21% in the synthetic slag did not adversely affect the desulfuration of steel, while an increase in ferrous exide in the slag from 2.60% Card 1/2

## L 15583-63 ACCESSION NR: AP3000904 to 4.50% caused the sulfur to decrease by 35% to 12% of the original amount. Tests conducted with blast furnace slag resulted in a 21% increase in the steel sulfur content. The performance of this sleg was improved after a preliminary purification by oxygen. It was also found that treatment of the steel with CaC-Al203-Sio2 slags resulted in a marked reduction of normetallic inclusions. The effectiveness of the slegs in this respect was favorably influenced by their T102 content. The use of nepheline as a slag reduced the nonmetallic inclusions of the steel from the original 0.058% to 0.009%. Orig. art. has: 6 formulas and ASSOCIATION: none SUBMITTED: 180ct62 DATE ACQ: 12Jun63 ENCL: SUB CODE: HC. NO REF 307: 009 OTHER. 001 Card 2/2

MIKHAYLIKOV, S.V. (Sverdlovsk); SHTENGEL'MEYYER, S.V. (Sverdlovsk);

YERSHOV, G.S. (Sverdlovsk)

Effect of silica on the viscosity of lime-silica slags. Izv.

AN SSSR. Met. i gor. delo no.1:48-50 Ja-F '64. (MIRA 17:4)

LUPEYKO, V.M.; YERSHOV, G.S.; UMRIKHIN, P.V.; MIKHAYLIKOV, S.V.

Improving the method of metal relining by symplectic lize. vys. ucheb. zav.; chern. met. 7 no.3:57-65 '64. (MIRA 17:4) Improving the method of metal refining by synthetic slags.

1. Ural'skiy politekhnicheskiy institut.

CIA-RDP86-00513R001033930003-9" **APPROVED FOR RELEASE: 07/12/2001** 

EFF(c)/EPR/EMO(j)/EWT(m)/EWP(b)/EWP(t) Pr-4/Ps-4 L 35596-65 IJP(c) ACCESSION NR: AR5005854 S/0137/64/000/011/V055/V055 SOURCE: Ref. zh. Metallurgiya, Abs. 11V338 AUTHOR: Yershov, G. S.; Mikhaylikov, S. V. TITLE: Purification of steel from nonmetallic inclusions by treating it with liquid synthetic slags of various compositions CITED SOURCE: Tr. 1-y Sverdl. nauchno-tekhn. konferentsii molodykh uchenykh. Ch. 1, Sverdlovsk, 1964, 67-72 TOPIC TAGS: steel degasification, metal purification, normetallic inclusion, ladle, synthetic slag TRANSLATION: The possibility of purifying gear steel from nonmetallic inclusions by treating it in the ladle with synthetic slags has been investigated. In the first group of melts, the steel was treated in the ladle with slag melts of the system Cab-Algog-Sibg. In this case, a significant lowering of the total amount of nonmetallic inclusions occurred. In the second group of melts, the steel was treated with a tagilite blast furnace slag with small additions of CaO and Al203. Card 1/2 

In this v	NR: AR50058	amount at	0 1	
iteel was content o inclusion reatment	treated with 6.27% in the stee.	amount of nonmetallic inclusions of oll-C.003%. In the third group of synthetic slags containing Tide.  synthetic slag, the amount of nor decreased from 0.024 to 0.003%, we tie slag containing 2.40% Tide, the decreased from 0.031	melts, the With a TiO2 metallic with	
roup of rithout action of the crease is a content of the crease is a conten	nelts, the stelliditions of Og In the nonmeta onts in the sy nonmetallic in	sel was treated with a nepheline me a0 and Al <sub>2</sub> O <sub>3</sub> . In this case, a sign allic inclusions was observed. Thu inthetic slag of 9.64, 6.0, and 4.0 inclusions in the steel treated wit	n the fourth lit with and Lificant s, with %, the	
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MIKHAYLIN, A. D., Cand of Chem Sci -- (diss) "Study of the mechanism of the deoxidation of calcium phosphate with carbon and the use of tracer atoms." Moscow, 1957, 17 pp (Scientific Institute of Fertilizers and Insectofungicides im Prof Ya. V. Samoylov), 110 copies (KL, 33-57, 37)

AUTHORS: Postnikov, N. N., Mikhaylin, A. D. 301/20-120 2-44/63

TITLE:

An Investigation of Diffusion in the System Tricalsium

Phosphate - Calcium Oxide - Carbon by Means of the Radioactive Isotopes C<sup>14</sup>, Ca<sup>45</sup> and P<sup>52</sup> (Issledovaniye liffuzii v sisteme trial'tsiyfosfat - okis'kal'tsiya - uglerod s pemeshch'yu

radioaktivnykh izotopov c<sup>14</sup> ca<sup>45</sup> i P<sup>32</sup>)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 120, Nr 2, pp.378-380

(USSR)

ABSTRACT:

In the investigation of the reduction mechanism and the kinetics of tricalcium phosphate by carbon the first author (Ref 1) set up the hypothesis that the velocity of process is limited by a mutual diffusion of reagents through the layer of reaction products (calcium oxide). At first the diffusion was investigated in the C - CaO system. Radioactive carbon was produced as soot by reduction of radioactive CO by means of magnesium metal at 700°C. A second type of soot from acetylene and radioactive CO, did not show any great differences as compared to the former. Both consisted of

Card 1/3

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An Investigation of Diffusion in the System Tricalcium Phosphate - Calcium Oxide - Carbon by Means of the Radioactive Isotopes C 4, Ca45 ani P32

 $\beta\text{-graphite}$  (Table 1). Radioactive CaO was produced by annealing of Ca $^{45}$  containing calcium carbonate. The dependence of the integral activity of the sample on the total thickness of the remote layers is to be seen in figure 1 as curve I = f(x). From the diagram the activity values were determined and from them the difference I - I  $_{n+1}$ . Based on this difference the dependence of the change of activity on the depth of diffusion was constructed in coordinates ln ( $\Delta$  I  $\mu$ I) =  $-(x^2)$  (Figure 2, 2). The values of the diffusion coefficient at different temperatures are shown in table 2 and figures 3, 1. The diffusion in the system  $Ca_3(PO_4)_2$  - CaO: The determination of the diffusion of such a large tetrahedral ion as  $PO_4^{3-}$  is especially interesting for the investigation of the reduction of tricalcium phosphate. Tricalcium phosphate (radioactive phosphate) and chemically pure CaO were used as initial substances for this purpose. The method of production is described. From the obtained results the conclusion can be drawn that the sublimation process of phosphorus on the whole takes place in the solid phase and is limited by the velocity of the mutual diffusion. Therefore it is expedient to use a briquetted charge in the phosphorus sublimation in electric

Card 2/3

80V/20-120-2-44/63An Investigation of Diffusion in the System Tricalcium Phosphate - Calcium Oxide - Carbon by Means of the Radioactive Isotopes C14, Ca45 and P32

> furnaces, which offers a possibility to intensify the process on a reduction of temperature in the furnace tank. There are

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3 figures, 2 tables, and 'Soviet references.

Nauchnyy institut po udobreniyam i insektofungisidam im. ASSOCIATION:

Ya. V. Samoylova

(Scientific Institute for Fertilizers and Insecticides imeni

Ya. V. Samoylov)

December 31, 1957, by S. I. Vol'fkovich, Member, Academy of PRESENTED:

Sciences, USSR

SUBMITTED: December 28, 1957

。中国中国的自治区的中国中华发展的特殊的共和国的自治区的中国中国

1. Calcium oxide-calcium rhosphate-carbon systems--Diffusion 2. Calcium isotopes (Radionctive) -- applications 3. Phosphorus

isotopes (Radioactives) -- Applications 4. Carbon isotopes

(Radioactive) -- Applications

Card 3/3

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**APPROVED FOR RELEASE: 07/12/2001** 

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S/186/60/002/002/018/022 E071/E433

AUTHORS:

Mikhaylin, A.D. and Postnikov, N.N.

TITLE:

The preparation of marked carbon from radioactive carbon dioxide

PERIODICAL: Radiokhimiya, 1960, Vol.2, No.2, pp.246-248

A method of preparation of radioactive carbon from radioactive carbon dioxide in the form of carbon black similar in reducing properties to that prepared from acetylene is described. The method is based on the reduction of carbon dioxide with magnesium. The vessel in which the reduction is carried out is a cylindrical thick-walled flask made from molybdenum glass, closed with a stopper through which two copper electrodes are passed. A molybdenum spiral was fixed to the ends of the electrodes. was covered with magnesium filings supported in the vessel by a quartz grid. Two such vessels were used in the experiments. After blowing through with pure carbon dioxide for 1 hour, the vessels were evacuated to  $10^{-6}$  to  $10^{-7}$  mm Hg and the first vessel was filled with radioactive carbon dioxide to a pressure of 740 to 760 mm Hg and an electric current (15 A) was passed through Card 1/3

2/398 5/186/60/002/002/018/022

The preparation of marked carbon .. E071/E43

As soon as the magnesium began to burn, the current the spiral. was reduced to about 2-3 A and increased again as the intensity of combustion decreased until the combustion stopped. After cooling, the pressure in the vessel indicated the amount of the carbon dioxide reacted. The remaining carbon dioxide was passed into the second vessel for the continuation of the reduction process and the first vessel was again filled with fresh carbon dioxide. At the end of the process the reduction products were washed out from the reaction vessel, evaporated to a 100 ml volume and treated with 50 ml of concentrated hydrochloric acid in order to dissolve admixtures (magnesium and molybdenum oxides, residual magnesium, carbides). The carbon suspension was filtered, washed, dried and ignited at 1000°C in a stream of well purified nitrogen for 4 hours. The yield of ignited carbon was 88% (98.76% C). X-ray and electron microscopic investigations indicated that it was in the form of  $\beta$ -graphite of a crystal size of  $10^{-5}$  to  $10^{-6}$  and that the microstructure was similar to that of carbon black obtained from acetylene. The reducing ability of the radioactive carbon black was found to be identical to that obtained from acetylene (based on Card 2/3

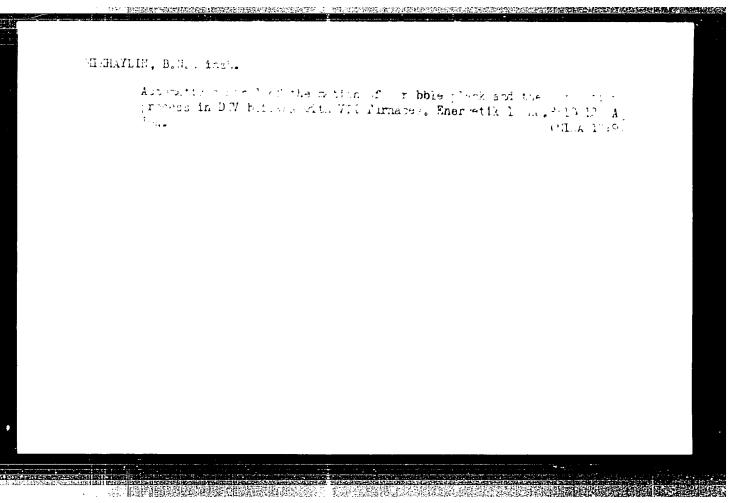
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L 17191-63 ACCESSION RR:	EXP(q)/SWI(m)/EDS AFFIG JD s/0081/63/000/009/0423/0423
医原状的 经营业指定的股份的 经销	Khimiya, Abs. 9167
AUTHOR: Tala Loktyukhina,	ov, N.D.; Mikhaylin, A.D.; Yezhova, A.M.; Livshits, S.I.;
	tion of high-purity phosphorus
CITED SOURCE:	Tr. po khimii i khim. tekhnol., (Gor'kiy), vy*p. 1, 1962, 159-164
phorphorus	red phosphorus, yellow phosphorus, purity, vacuum distillation,
from impuriti equivalent ac equal amounts acid for peri	The process of purification of technical commercial red phosphorus es of mineral acids in small concentrations was studied. The non-tion of 3 and 5% HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , and HCl or their mixtures, taken in , was demonstrated at 70-95°. Two treatments of red phosphorus with ods of 12 hours, followed by washing with distilled water and ssfully purify phosphorus from a total content of the impurities to up to 2:10-2-5:10-3%. The process of vacuum distillation of
ard 1/2	

. 17191-63 ACCESSION NR: AR3004189					0		
technical yellow phosphorus at a residual pressure of 1 sation to the red modificat impurities to be determined of two to three distillation method of four distillation range 1.10 -2 -1.10 mm of metho final product was noted	ion was a equal to ous. Species. No in	tudied. P 5.10-46 a trally pur fluence of of the va	hosphorus cond lower is e phosphorus the depth or riety of gla	ntaining obtained is obtain	a sum of by the m ned by t uum in t	the lethod he	
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BLYUMBERG, Ya.B., kand.tekhn.nauk; MIKHAYLIN, A.D., kand.khim.nauk; REMEN, R.Ye., kand.khim.nauk

Articles on mineral fertilizers. Priroda 53 no.1:66-72 64. (MIRA 17:2)

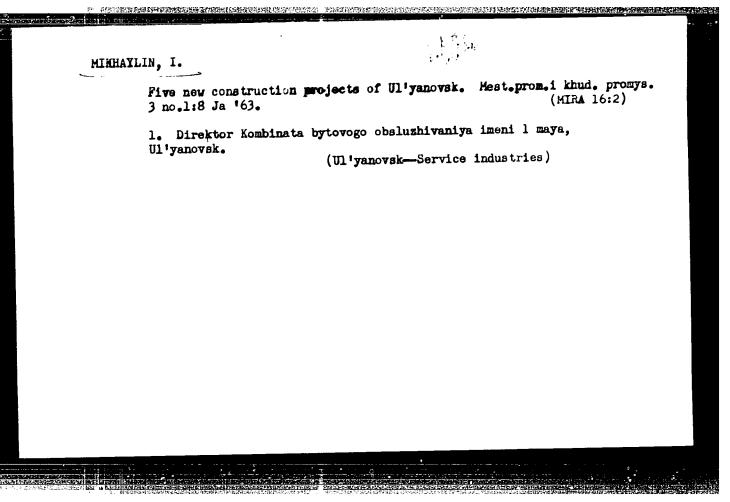


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ZIMINA, M.A., inzh.; MIKHAYLIN, G.K., inzh.; TARASOV, S.M., inzh.

New D-612 scraper. Stroi. 1 ior. mash. 9 no.5:10 My '64.

(MIRA 17:6)



MIKHAYLIN, Ivan Ivanovich; SMIRNOV, Anatoliy Ivanovich, inzh.;

SHNETDERMAN, K.A., red.; ABRAMOVA, Ye.A., tekhn.red.

[Swine plant; mechanized fattening center of the "Donsvinovod" State Farm) Fabrika svininy; mekhanizirovannyi otkormochnyi punkt sovkhoza "Donsvinovod". Rostov-na-Donu, Rostovekoe knizhnoe izd-vo, 1960. 30 p. (MIRA 14:12)

1. Direktor sovkhoza "Donsvinovod", Mechetinskogo rayona (for Mikhaylin). (Swine)

?这种报告并被例识的思想,我有400年间的对象的关系是这些对象的一个。

MIKHAYLIN, I. M., YERSHOVA, N. D. and KHVOSTIKOV, I. A.

"Measurements of the Brightness of the Green Line of the Night Sky," Iz. Ak. Nauk SSSR, Ser. geograf. i geofiz., No.2, pp. 217-21, 1939

Inst. Theoretical Geophysics, AS USSR

Translation 563844

MIKHAYLEN, I. M., BOVCHEVEROV, V. M., MIRONOV, A. V., MOROZOV, V. M., PONTSOVSKIY, Z. L., SOKOLOV, S. P. and KHVOSTIKOV, I. A.

"On the Connection Between the Anomolies of Polarization of Half-Light and the State of Ionization," C.R.Acad.Sci. URSS, 1949, Vol. 26, No.9, pp. 900-903.

SOV/51-5-6-6/19

AUTHORS:

Rozenberg, G.V. and Mikhaylin, I.M.

TITLE :

Ellipticity of Polarization of Scattered Light (Elliptichnost'

polyarizatsii rasseyannogo sveta)

2. 用流程整理相談的監察逐步的通信整備和影響的信息等等是影響等等。 对意思。

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 6, pp 671-681 (USSR)

ABSTRACT:

The paper describes experiments on the ellipticity of polarization of light scattered by the ground layers of atmosphere and on dependence of this ellipticity on the scattering angle. A visual polarimeter for measurement of all polarization characteristics of a light beam (degree of polarization, degree of ellipticity, position of the plane of predominant polarization) was constructed. This instrument is based

upon the following theory. It is assumed that a light beam may be described by a Stokes vector-parameter S with respect to a certain plane of reference. A compensator is placed in the light beam; it introduces a phase shift T and is rotated by an angle with respect to the

reference plane. Behind the compensator a polarizer, rotated by an angle  $\chi = \psi + \phi$  with respect to the reference plane, and an analyser

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Ellipticity of Polarization of Scattered Light

which is rotated by an angle ( = ) + o w.r.t. the reference plane, are placed. By selecting various value, of wand & and by measurement of the angle \u03c4 which corresponds to the condition of equal brightness of fields in a Wollaston prism (which is used in the place of a colarizer) one can find the degree of polarization  $\rho_{\rm c}$  the degree of ellipticity q and the angle of retation of the major axis of the ellipse of polarisation with respect to the reference plane  $\Psi_0$  . The polarimeter was based on a throdolite with a draphragm of 6 angular diameter. a quarter-wave plate and a Wollaston prism, which could separate two beams by f were placed centred the diaphrage. The vertical plane rassing through the optical arts of the theodolite was taken to be the reference plane. Bening the Wollaston prism a polaroid and a long-focus eyepiece were placed. The eyepiece produced a virtual image of the diachragm. A SZS-lo light filter of 5 mm thickness was used to monochromatize the fields of view to be compared. The error of a single determination of  $\eta$  amounted to  $\pm 2^\circ$ . The error in determination of the degree of elimpticity was less than  $\pm 0.03$ . Measurements were made on moonless nights in the second half of September in mountains of Northern Caucasus (750 m above sea level). Atmospheric aerosols were

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Ellipticity of Polarization of Scattered Light

present in very small quantities. A projector, with a reflector of 150 cm diameter and an arc of 11.5 kW power, was used as the source of light. The projector was covered up completely except for an aperture of 40 cm diameter A polaroid of 40 cm diameter was placed at a distance of 1 m from the prejector. A large screen (5 x 5 m, with an aperture of 40 cm diameter was placed at a distance of 8 m from the projector (along the beam ) inia system produced a sharply defined linearly colarized beam of light at a height of 2 m above the ground level. The polarimeter was placed at 12 m from the screen and 2 m away from the light beam. The results are given in Figs 1-6. The ordinates give q, the degree of ellipticity of the scattered beam, as a function of the scattering angle 9, for various fixed angles 5 between the plane of polarization of the beam and the clane of scattering. Fig 1 gives q(A) for 5 = +4z in the access of mint. Figs 2 and 3 show curves of  $q(\theta)$  for  $\leq = +45^\circ$  in a thick have with a rainbow (curves 1) and in a slight haze ( mirves ?). The maximum of q, which is characteristi of

Card 5/4

a rainbow, occurs also when no have is present (Fig 4), probably despite 5 were obtained for 5 = -15 and 5 = +45 rospectively. Fig 6 shows rasplic for 5 = 0 (egen and black dots) and 5 = +90 (ercsent and helf-black dots). There are 6 figures and 1 Soviet reference.

SUBMITTED: January 6, 1958

24(4) SOV/20-122-1-16/44

AUTHORS: Rozenberg, G. V., Mikhaylin, I. M.

The Experimental Detection of the Ellipticity of the Folarization of Scattered Light (Eksperimental'noye obnaruhheniye TITLE:

elliptichnosti polyarizatsii rasseyannoro sveta)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 1 2, Mr 1, pr (2-64

(USSR)

ABSTRACT: The purpose of this paper is to find preliminary data con-

cerning the learner of the ellipticity of light scattered by the lowest layers of the earth atmosphere and concerning the character of its dependence on the scattering angle. A theodolite, in the focal plane of which a diaphragm of the angular diameter 6° was placed, was used as a polarimeter. The authors immediately measured the angles  $\eta$  in which the brightness of both the photometric fields was equal.  $\eta$  denotes the angle of rotation with respect to the vertical lirection. The decree of the ellipticity q of

the incident light was found by means of the relation

 $q=(\cos 2\,\eta_+-\cos 2\,\eta_-).$  By choosing other values of dertain angles, it is possible to determine the legree of the

Card 1/3

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The Experimental Detection of the Ellipticity of the Polarization of Scattered Light

colorization of the light and the angle  $\psi_{\kappa}$  of the inclination of the plane of the principal polarization with respect to the vertical direction. The experiments were carried out during moonless nights in the second half of September 1957 on the foothills of the Worthern Caucasus. A projector was placed in a comparatively narrow valley, its horizontal light beam was directed along the valley. The carrying out of the experiment (places of the polarimeter etc.) are discussed in short. Because of the comparative pureness of the air, the scattered airwas rather faint, and the visual methods took a long time and were not very precise. According to theoretical considerations an ellipticity of the polarization of the scattered lift will be observed only as a result of the scattering on an aerosol and it will have a maximum for  $\xi = \pm 45^{\circ}$ , if the irradiating beam is linearly colarized in a lirection which includes the angle { with the plane of scattering. The ellipticity distinctly depends on the scattering angle, approximately satisfying the relation  $\sim \cos 3 \theta$ . In the extrema q  $\sim 0,1$  which is not a low value. A second liagram slows the function  $q(\theta)$  for 2

Card 2/3

SOV/20-122-1-16/44

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The Experimental Detection of the Ellipticity of the Polarization of Scattered Light

cases of more or less dense fog. A zone of irridescence  $(\theta=130-140^{\circ})$  (in which  $q\sim0.5$ ) and a change of the sign of q in the region  $\theta\sim40-90^{\circ}$  were observed. Tometimes, the irridescent region was observed also in cases without an actual fog. This is an argument in favor of the presence of an aerosol fraction consisting of large drops in the air. The values of the degree of polarization were within the limits 0.60-0.76. From a theoretical point of view, the ellipticity of the polarization of the scattered light is not a surprising thenomenon. There are 3 figures and 1 Soviet reference.

PRESENTED:

March 8, 1958, by V. V. Shuleykin, cademician

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Card 3/3

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AUTHORS:

Hozenberg, G. V., Rudometkina, N. D. and Mikhaylin,

TITLE:

Angular relation of the matrix of dispersion of atmo-

spheric light (Theses)

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 3, 1962, 27, abstract 3B219 (V so. Akvinometriya i atmosfern. Optika,

L., Gidrometeoizdat, 1961, 215-216)

TDMT: The components of the matrix of dispersion for atmospheric air were determined experimentally. The observations were made on the foothills of the North Caucasus in September 1957. Photographic and visual measurement procedures were used. Some persistent features of the angular relations of the dispersion matrix components which are characteristic for the presence or absence of fog, are mentioned. The marked ellipticity of the polarization of scattered light was established. / Abstracter's note: Complete translation. /

Card 1/1

-5/P1-4 08/GW UR/0000/64/000/000/0134/0135 L 52049-65 EWT(1)/EWG(v)/FCC/EEC(t) ACCESSION NR: AT5011167 AUTHOR: Driving, A. Ya.; Mikhaylin, I.M.; Rozenberg, G.V. (Professor) TITLE: Some data on the polarization of light scattered in the surface layer of the atmosphere \* SOURCE: Meziwedomstvennoye soveshchaniye po aktinometrii i optike atmosfery. 5th. Moscow, 1963. Aktinometriya i optika atmosfery (Actinometry and atmospheric optics); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 134-135 TOPIC TAGS: atmospheric optics, atmospheric surface layer, light polarization, photometer, mist, fog ABSTRACT; Observations of the components of the matrix of scattering characterizing the scattering function  $f_{11}(f,\lambda)$  and the polarization of scattered light  $f_{21}(g,\lambda)$  were made in September and October 1961 at Zvenigorod by the Institut fiziki atmosfery (institute of Atmospheric Physics). Measurements were made in mist and fog with a DFS-14 diffraction spectrometer having a line dispersion on the second order of 6 A/mm in the region of wavelengths 4000-5500 A. The sensor was an FEu=19 photomultiplier; a searchlight was the light source. The same scattering volume for a parallel beam of rays was viewed by a photometer moving along rails in a range of scattering angles from 20 to 165°. A Card

L 52049-65 ACCESSION NR: AT5011167 polaroid was mounted at the photometer aperture and could be oriented at several angles to the scattering plane. In the case of mist the polarization maximum was in the region of If from 90 to 110°. The transition of mist into fog was characterized by the appearance of a large number of maxima in the region of scattering angles 9 greater than 115° and less than 80°. Due to the large resolution of the instrument it was possible to detect clearly the interference character of the polarization curves in the case of a persistent (over 6 hours) fog of very fine water droplets. There is a maximum of positive polarization on the curves corresponding to a primary rainbow at 3 = 142-143° and a secondary rainbow at q=136-137°; there also were peaks at J=130, 150 and 157° and a number of peaks at a < 130°. In the case of an unstable fog the polarization curves show enlargement of fog droplets and the inverse process. In three hours of observations the maximum corresponding to the primary rainbow at  $g=145.0^\circ$  was displaced to  $g=138.0-139.0^\circ$  with a sharp increase in polarization and development of secondary peaks of equal magnitude at g = 120.0 and 145.0° and a somewhat greater peak at g = 133.0°. At the end of the measurements, when the fog began to dissipate, the polarization curves began to be blurred; the main peak (primary rainbow) remained at 9 = 140:0°, as did a smaller peak at 9 = 150.0° and a thri at 9 = 120.0°. Several polarization curves obtained during a rain were characterized by a sharply expressed maximum of the primary and secondary rainbows and a very large number of secondary peaks for the region of scattering angles 115.0° < g < 70.04. Comparison of the  $f_{21}/f_{11}$  and  $f_{11}$  curves shows that the effects of scattering, Card

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L. M.; Rozenberg, G. V.; Turkin, G.	Driving, A. Ya.; Malkov, I. P.; Mikhaylin,	
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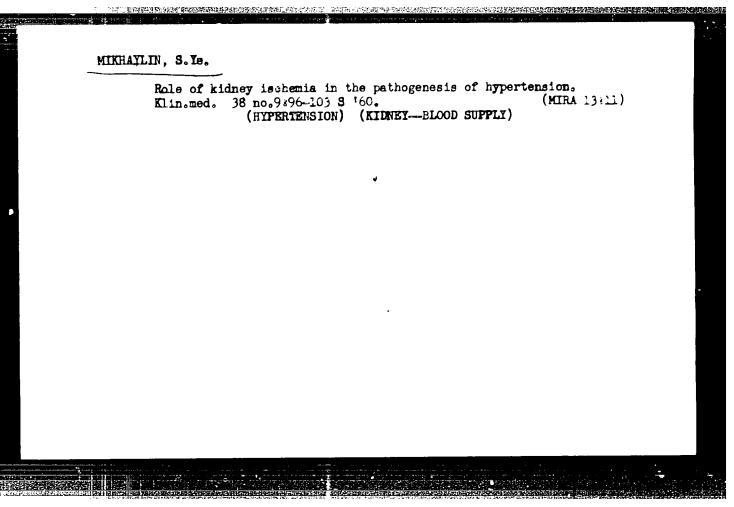
of the aerosol layer at a height of about 19 km, thus verifying the earlier evaluation. Additional information as to the seasonal and geographic variations of the height structure of the layer and absolute values of the coefficient of scattering at different heights is believed necessary in order to determine the origin of the layer. Orig. art. has: 8 figures and 24 formulas.

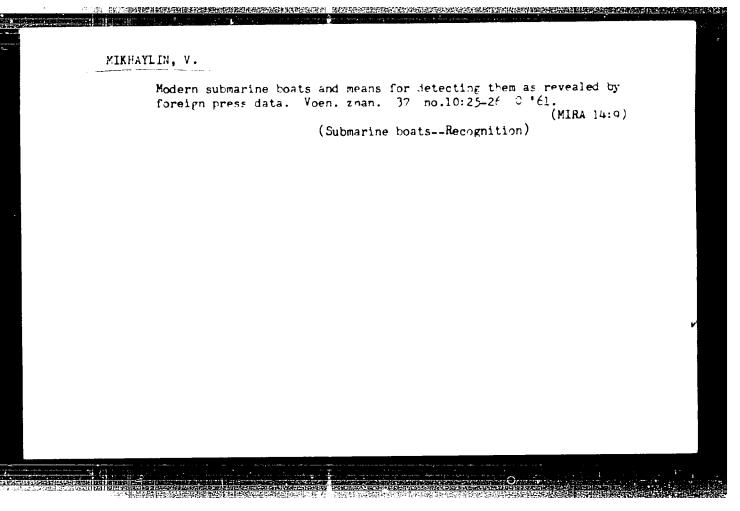
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MIKHAYLIN, I. Ya.; PULAVIN, V. F. Forest Management For improvement of financial operations in sheltercelt stations. les. knoz. 5 no. 7, 1952 

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	9. Monthly List of Russian Accessions, Library of Congress, August 1954, 20ncl.	
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BAKHTIN, V.I.; MIKHAYLIN, V.N.

Self-compensated thermal vacuum manometer. [zm.tekh. no.9;
25-26 S '60. (MIRA 13:9)

(Electronic instruments) (Vacuum gauges)
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KAZAKOV, K.P., marshal artillerii; RUDENKO, S.I., marshal avisisi; MIKHAYLIN, V.V., kontr-admiral; LEONOV, A.I., marshal zoysk svyazi

Soviet military leaders on the revolution in military affairs. Youn.znan. 40 no.11:36 N '64. (MIRA 18:1)

1. Komanduyushchiy raketnymi voyskami i artilloriyey (for Kazakov). 2. Pervyy zamestitel Glavnokomanduyushchego Voyenno-Vozdushnymi Silami (for Rudenko). 3. Pervyy zamestitel komanduyushchego Krasnoznamennym Baltiyshim flotom (for Mikhavlin). 4. Nachalinik voysk svyazi (for Leonov).

L 21995-66 EWT(m)/EWP(t IJP(c) JD

ACC NR: AP6006967 SOURCE CODE: UR/0368/66/004/002/0174/0176

AUTHOR: Mikhaylin, V. V.; Brzhezinskiy, V. A.

ORG: none

TITLE: The production of thin films of activated CaS by the cathode sputtering method

SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 2, 1966, 174-176

TOPIC TAGS: thin film, calcium sulfide, crystal phosphor, luminescence spectrum

ABSTRACT: In view of the interest shown in the structure of the fundamental absorption of crystals in the group IIA-VIB, there arose a need for the production of thin films of these substances with a layer less than  $0.2\,\mu$  thick. The present authors use the method of cathode sputtering for the production of CaS, one of the compounds of the group. The procedure and the equipment used in the experiments are described. Experiments on the transference of a calcium sulfide-based crystal phosphor (CaS-Bi, Mn) showed that the film produced after annealing in a vacuum at 400–600C, on excitation in the 270 nm region exhibited luminescence similar to that of the initial substance. This confirms the possibility of producing thin luminescent films of multicomponent systems by the method

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